

### ABSTRACT OF THE DISCLOSURE

A position detecting sensor includes a first magnet having a first pole and a second pole, and a second magnet having a first pole and a second pole. The first pole of the second magnet faces the second pole of the first magnet. The position detecting sensor further includes a magnetic detecting element in the vicinity of the first and second magnets. A magnetic flux density detected in a zone including the magnetic detecting element while a detected body is away from the position detecting sensor more than a predetermined distance is greater than a magnetic flux density detected in the zone while the detected body is positioned near at least one side of the position detecting sensor by the predetermined distance.